J-W WIRELINE COMPANY

GAMMA RAY CCL
CEMENT BOND VDL
SECTOR MAP

Company	KERR-MCGEE OIL & GAS ONSHORE LP
Well	BARCLAY 28C-27HZ
Field	WATTENBERG
County	WELD
State	COLO

Company KERR-MCGEE OIL & GAS ONSHORE LP
Well BARCLAY 28C-27HZ
Field WATTENBERG
County WELD State COLO
Location: API #: 05-123-34493-0000
478' FSL & 1903' FEL
SEC 27 TWP 3N RGE 66W

Other Services

Permanent Datum
Log Measured From
Drilling Measured From

Elevation

Elevation
K.B.
D.F.
G.L.

Date	APR-27-2012
Run Number	ONE
Depth Driller	6850
Depth Logger	6850
Bottom Logged Interval	6850
Top Log Interval	SURFACE
Open Hole Size	----------
Type Fluid	WATER
Density / Viscosity	----------
Max. Recorded Temp.	232
Estimated Cement Top	SURFACE
Time Well Ready	----------
Time Logger on Bottom	----------
Equipment Number	2833
Location	STERLING
Recorded By	KYLE GIRDLER
Witnessed By	KEITH KALLSEN

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	7	26#		
Prot. String				
Production String	4.5	11.6#	6806	
Liner				

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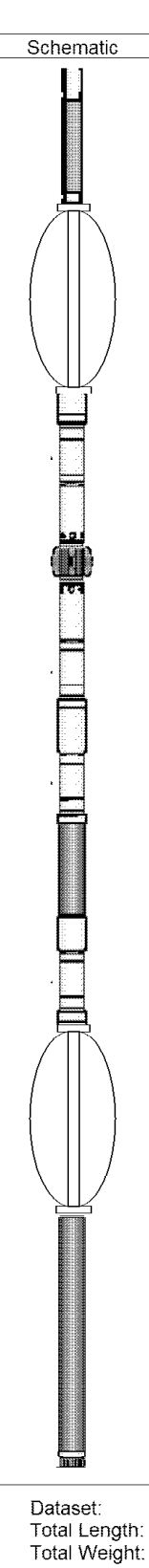
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

LOGGED UNDER 2800 PSI



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.52	CCL-275tekco (183) 2.75" TEK CCL Earth Mag	1.96	2.75	20.00
		CENT-TEKCO (101)	2.73	2.25	10.00
WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF3FT WVF5FT	11.44 11.44 11.44 11.44 11.44 11.44 11.44 11.44 10.69 9.69	SCBL-TEKCO-CT (101) TEKCO 2.75 RIB - CT	9.08	2.75	108.00
WVFCAL	6.40				
		CENT-TEKCO (102)	2.73	2.25	10.00
GR	1.06	GR-TEKCO (234) 2.75 HIGH TEMP LOGGING GR	3.67	2.75	25.00

Dataset: barclay 28c-27hz.db: field/well/run1/pass12
Total Length: 20.17 ft
Total Weight: 173.00 lb
O.D. 2.75 in

Database File: barclay 28c-27hz.db
Dataset Pathname: pass12
Presentation Format: scbl
Dataset Creation: Fri Apr 27 16:08:57 2012 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: barclay 28c-27hz.db
Dataset Pathname: pass12
Dataset Creation: Fri Apr 27 16:08:57 2012 by Log Std Casedhole 07122

Gamma Ray Calibration Report

Serial Number:	234	
Tool Model:	TEKCO	
Performed:	Tue Apr 19 11:32:12 2011	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.2000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	101	
Tool Model:	TEKCO-CT	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	2139.233	ft

Master Calibration, performed Fri Apr 27 15:55:36 2012:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	2.499	0.000	62.165	24.879	-0.002
CAL	-0.001	0.586				
5'	0.000	2.499	0.000	62.165	24.878	-0.000
SUM						
S1	-0.000	2.499	0.000	62.000	24.808	0.012
S2	0.000	2.499	0.000	62.000	24.813	-0.003
S3	0.000	2.499	0.000	62.000	24.815	-0.007
S4	0.001	2.499	0.000	62.000	24.820	-0.019
S5	0.000	2.499	0.000	62.000	24.815	-0.008
S6	-0.000	2.499	0.000	62.000	24.812	0.002
S7	-0.000	2.499	0.000	62.000	24.808	0.012
S8	-0.000	2.424	0.000	62.000	25.569	0.011

Internal Reference Calibration, performed Mon Apr 17 11:52:18 2006:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.001	0.586	1.000	0.000

Air Zero Calibration, performed Thu Jul 16 12:10:26 2009:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000